# APPENDIX A

REPLACEMENT SHEET

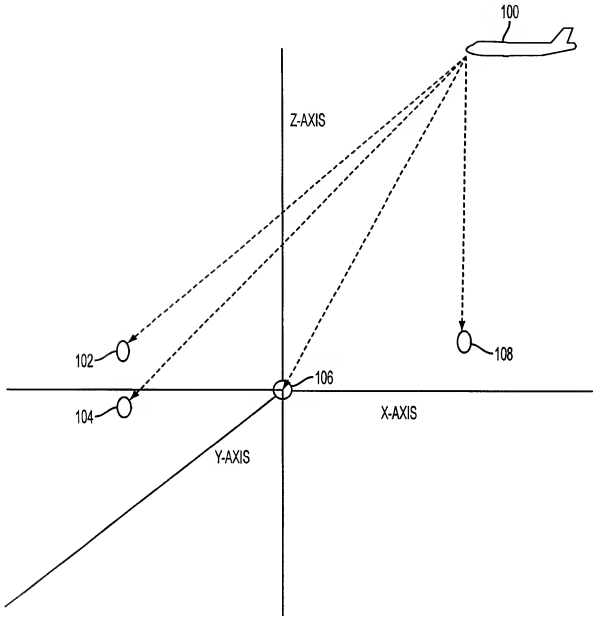



FIG. 1

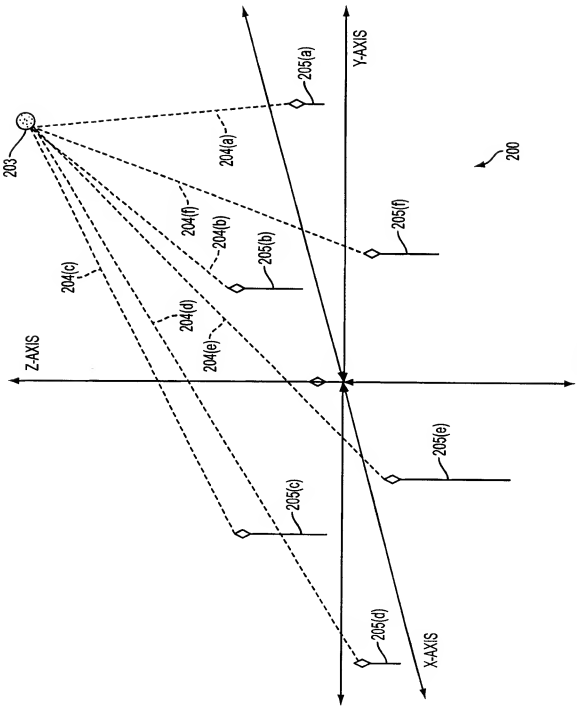

203
204(a)
204(b)
204(c)
204(d)
204(e)
204(f)
205(a)
205(b)
205(c)
205(d)
205(e)
205(f)
Y-AXIS
Z-AXIS
X-AXIS
200

FIG. 2

REPLACEMENT SHEET

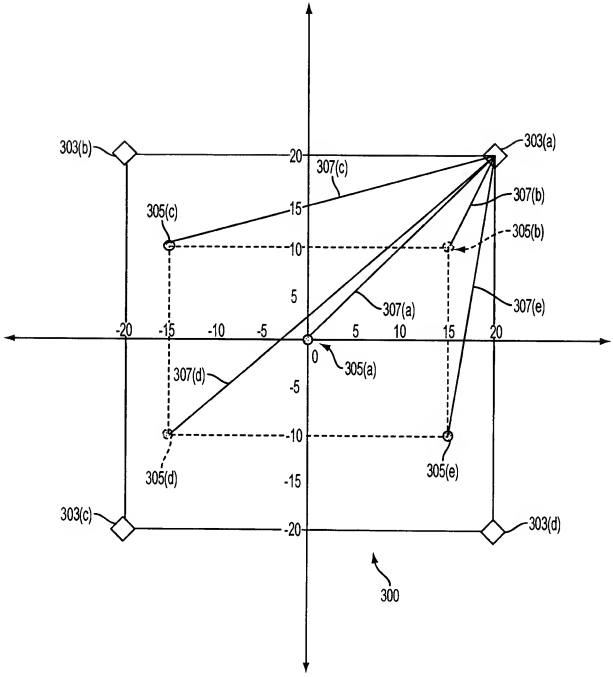



FIG. 3

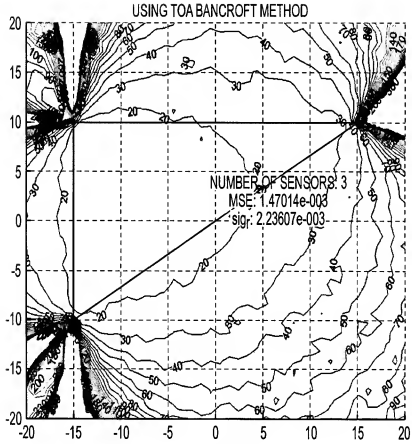

USING TOA BANCROFT METHOD
NUMBER OF SENSORS: 3
MSE: 1.47014e-003
sigr: 2.23607e-003
20
15
10
5
0
-5
-10
-15
-20
-20
-15
-10
-5
0
5
10
15
20

FIG. 4

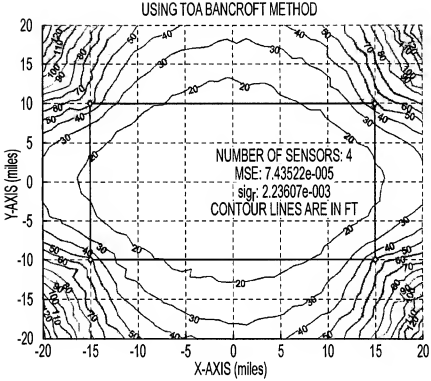

USING TOA BANCROFT METHOD
NUMBER OF SENSORS: 4
MSE: 7.43522e-005
sig: 2.23607e-003
CONTOUR LINES ARE IN FT
Y-AXIS (miles)
X-AXIS (miles)
20
15
10
5
0
-5
-10
-15
-20

FIG. 5

REPLACEMENT SHEET

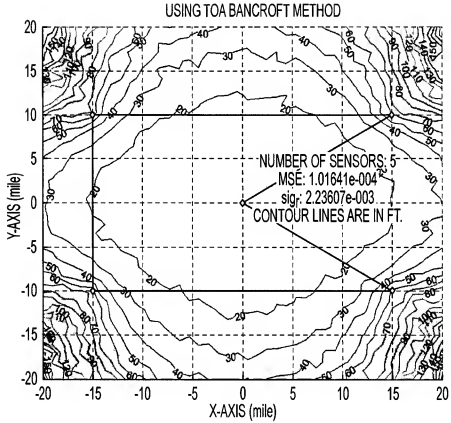



FIG. 6

U.S. Application No: 10/814,649
Filed: April 1, 2004
Art Unit 3662; Confirmation No. 5903
Inventor: Michael Coluzzi.
Sheet 7 of 25
Docket: 46417.001024; Customer No. 21967



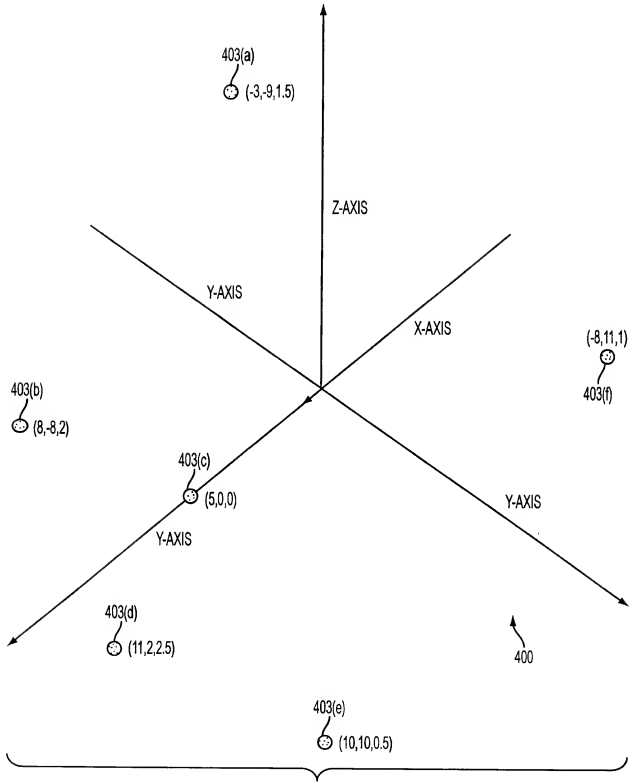



FIG. 7

REPLACEMENT SHEET

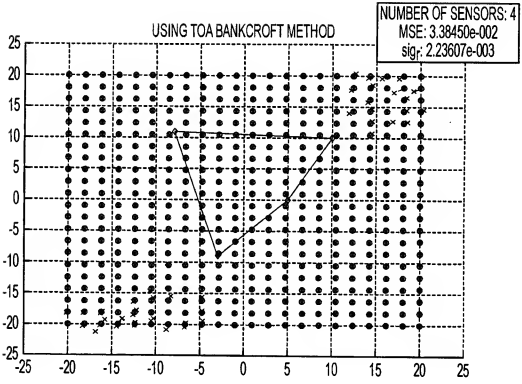



FIG. 8

REPLACEMENT SHEET

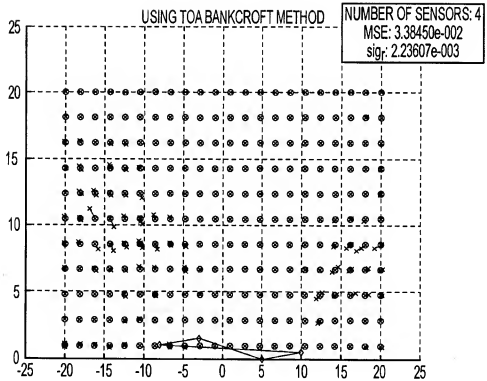



FIG. 9

REPLACEMENT SHEET

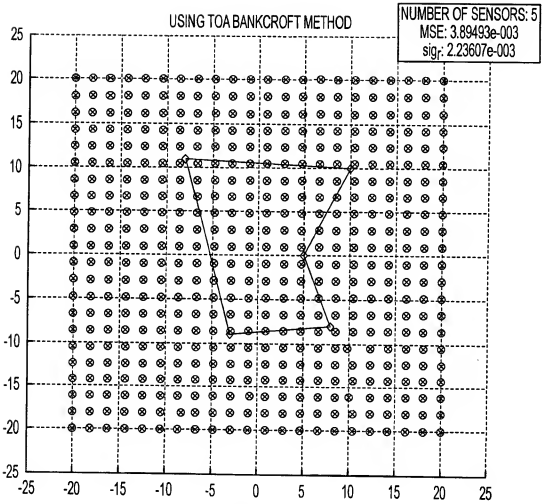



FIG. 10

REPLACEMENT SHEET

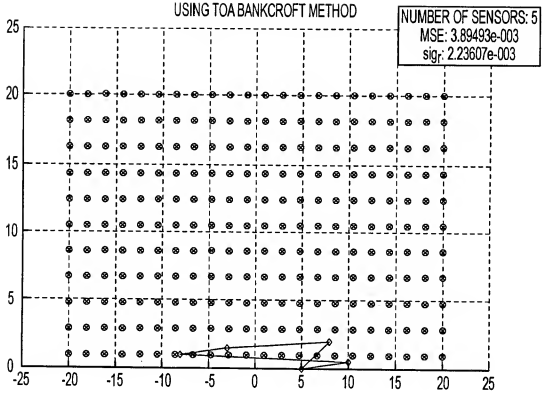



FIG. 11

REPLACEMENT SHEET

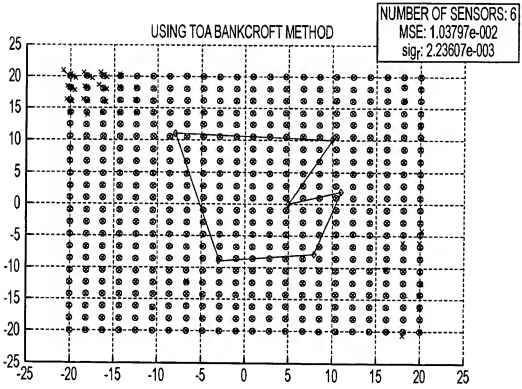



FIG. 12

REPLACEMENT SHEET

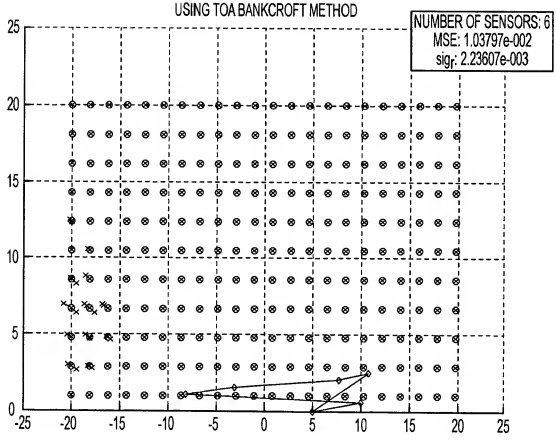
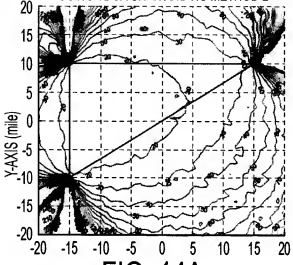


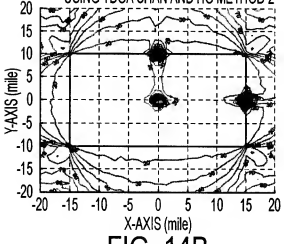

FIG. 13

REPLACEMENT SHEET




NUMBER OF SENSORS: 3
MSE: 1.47014e-003
$sig_r$: 2.23607e-003

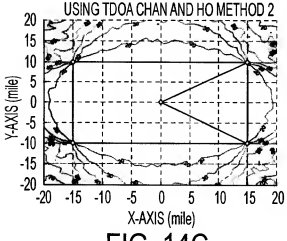
FIG. 14A




NUMBER OF SENSORS: 4
MSE: 6.20043e-005
$sig_r$: 2.23607e-003

CONTOUR LINES IN FT.

FIG. 14B




NUMBER OF SENSORS: 5
MSE: 3.43828e-005
$sig_r$: 2.23607e-003
CONTOUR LINES IN FT.

FIG. 14C

REPLACEMENT SHEET

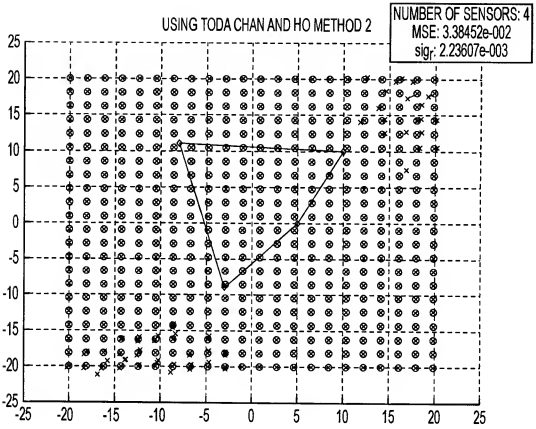



FIG. 15

REPLACEMENT SHEET

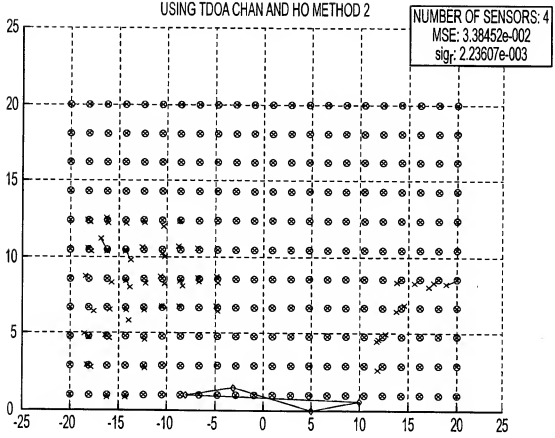



FIG. 16

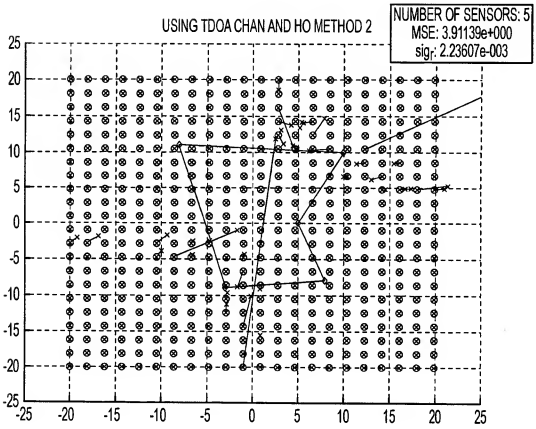

USING TDOA CHAN AND HO METHOD 2
NUMBER OF SENSORS: 5
MSE: 3.91139e+000
sigr: 2.23607e-003
25
20
15
10
5
0
-5
-10
-15
-20
-25
-25
-20
-15
-10
-5
0
5
10
15
20
25

FIG. 17

REPLACEMENT SHEET

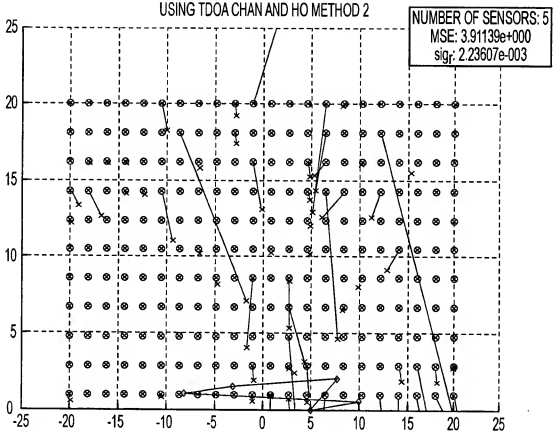



FIG. 18

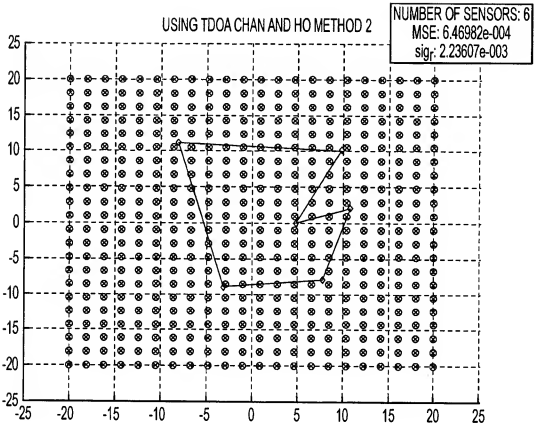

USING TDOA CHAN AND HO METHOD 2
NUMBER OF SENSORS: 6
MSE: 6.46982e-004
sigr: 2.23607e-003
25
20
15
10
5
0
-5
-10
-15
-20
-25
-25
-20
-15
-10
-5
0
5
10
15
20
25

FIG. 19

REPLACEMENT SHEET

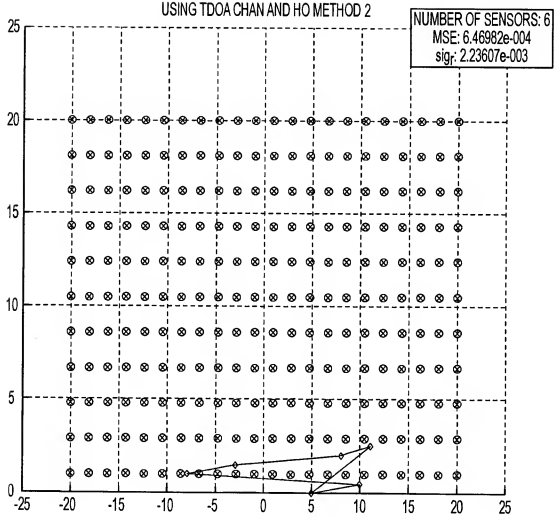



FIG. 20

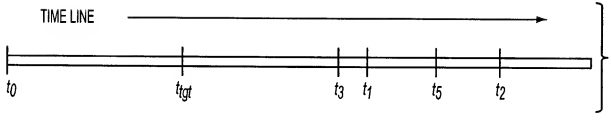



FIG. 21

REPLACEMENT SHEET

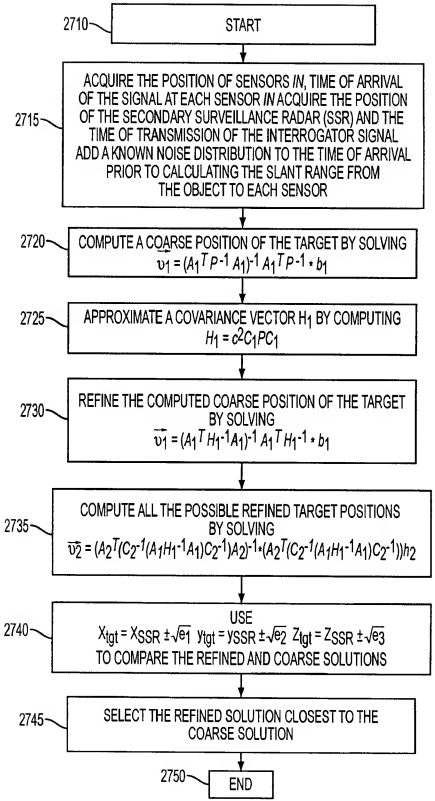



FIG. 22

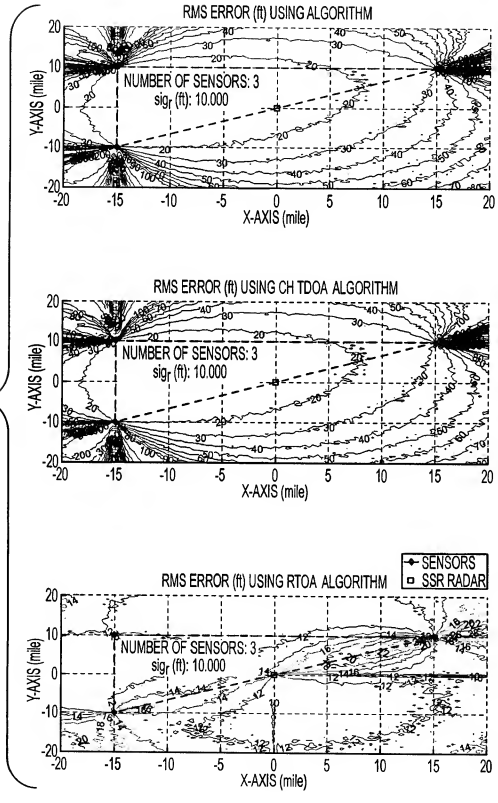

RMS ERROR (ft) USING ALGORITHM
NUMBER OF SENSORS: 3
sigr (ft): 10.000
Y-AXIS (mile)
X-AXIS (mile)
RMS ERROR (ft) USING CH TDOA ALGORITHM
NUMBER OF SENSORS: 3
sigr (ft): 10.000
Y-AXIS (mile)
X-AXIS (mile)
SENSORS
SSR RADAR
RMS ERROR (ft) USING RTOA ALGORITHM
NUMBER OF SENSORS: 3
sigr (ft): 10.000
Y-AXIS (mile)
X-AXIS (mile)

FIG. 23

REPLACEMENT SHEET

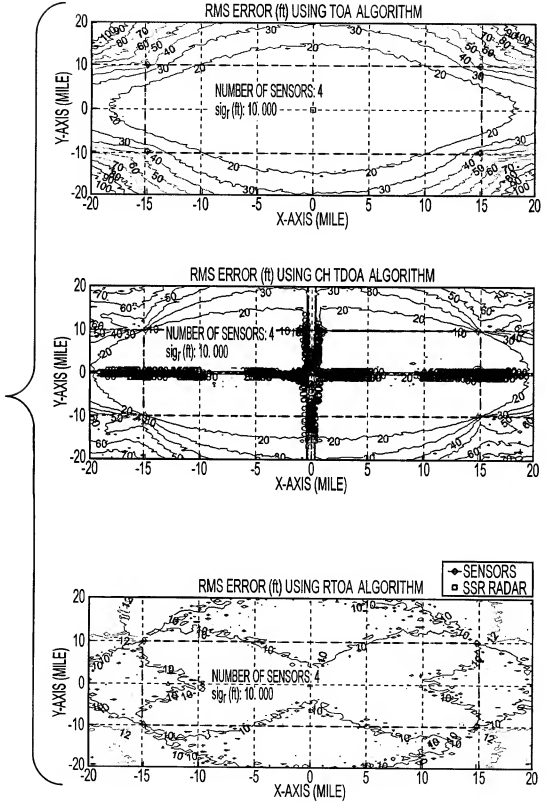



FIG. 24

REPLACEMENT SHEET

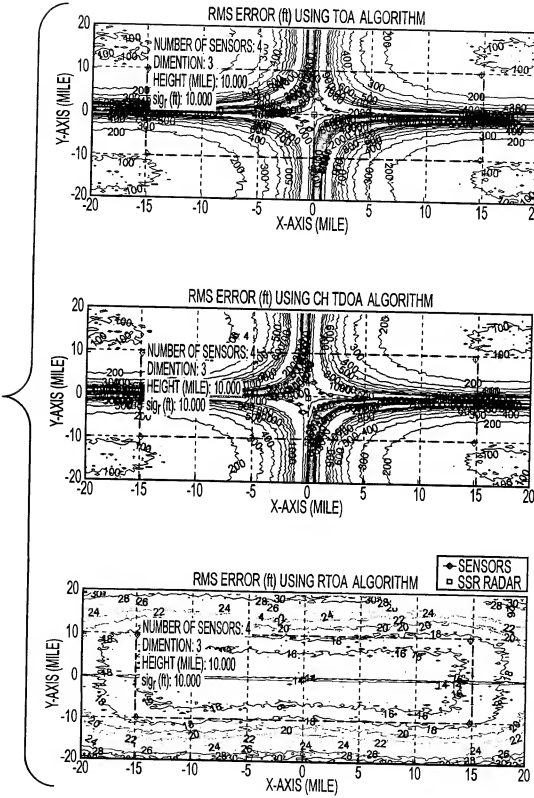



FIG. 25